CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

An ISO 9001:2008 Certified Company

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.10/KRIDL/CEMENT/2014-15

Date: 10.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
AGENCY	:	**Technical Manager,** KRIDL, Bangalore.
NAME OF THE WORK	:	Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.
REFERENCE	:	EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014
SAMPLE ID	:	CEMENT
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 1989-2013
1	Standard Consistency	IS-4031 (Part -4)	30.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5)	140 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	490 Minutes	Not More than 600 Minutes
3	Soundness by the Le-Chatelier method	IS-4031 (Part 3)	1 mm	Not more than 10 mm

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Job No.: CTCE/BBMP/W.No.10/KRIDL/SAND/2014-15 : 10.07.2014

TEST REPORT ON FINE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014

Date of Testing : 10.07.2014

Material : Sand Total Wt. of Aggregates in gms 1000

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	55	5.50	5.50	94.5	90-100
2.36	180	18.00	23.50	76.5	75-100
1.18	156	15.60	39.10	60.9	55-90
600 Micron	185	18.50	57.60	42.4	35-59
300 Micron	165	16.50	74.10	25.9	8-30
150 Micron	180	18.00	92.10	7.9	0-10

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Job No.: CTCE/BBMP/W.No.10/KRIDL/AGG/2014-15 : 10.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of Work : Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014

Date of Testing : 10.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **10000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	325	3.25	3.25	96.75	95-100
20	5250	52.50	55.75	44.25	30-70
10	2450	24.50	80.25	19.75	10-35
4.75	1525	15.25	95.50	4.50	0-5

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2014-15

12.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.
Reference	: EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	15.07.2014	12.08.2014	8.135	482.3	21.44
2	15.07.2014	12.08.2014	8.259	495.6	22.03
3	15.07.2014	12.08.2014	8.356	526.3	23.39

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14.08.2014

TEST REPORT ON CONCRETE CUBES

Client : **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.

Agency : **Technical Manager,** KRIDL, Bangalore.

Name of the work : Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.

Reference : EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014

Sample ID : Road Concrete

Size of cubes : 150mmx150mmx150mm

Cross Sectional Area : 22500 mm^2

Technical Reference : IS: 516-1959 (Reaffirmed 2008)

Grade of Concrete : M_{20}

Compressive Strength as on : 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	17.07.2014	14.08.2014	8.295	480.3	21.35
2	17.07.2014	14.08.2014	8.365	498.6	22.16
3	17.07.2014	14.08.2014	8.472	520.5	23.13

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Job No.: CTCE/BBMP/W.No.10/KRIDL/CUBE/2014-15 18.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.
Reference	: EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.07.2014	18.08.2014	8.135	483.6	21.49
2	21.07.2014	18.08.2014	8.259	498.6	22.16
3	21.07.2014	18.08.2014	8.375	519.6	23.09

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16.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
Agency	: **Technical Manager,** KRIDL, Bangalore.
Name of the work	: Improvements to roads and drains at Krishna North Villas I in Ward No.10, BBMP, Bangalore.
Reference	: EE/BTP/KRIDL/W.O/468/2013-14 Dated: 21.02.2014
Sample ID	: Road Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.07.2014	16.08.2014	8.098	479.6	21.32
2	19.07.2014	16.08.2014	8.175	502.3	22.32
3	19.07.2014	16.08.2014	8.296	519.3	23.08

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TEST REPORT ON CONCRETE CUBES

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Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28th day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	24.07.2014	21.08.2014	8.129	485.5	21.58
2	24.07.2014	21.08.2014	8.260	495.8	22.04
3	24.07.2014	21.08.2014	8.345	523.6	23.27

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